

MS-No.: egusphere-2025-1440

Version: Revision II

Title: Changing European Hydroclimate under a Collapsed AMOC in the Community Earth System Model

Author(s): René M. van Westen, Karin van der Wiel, Swinda K.J. Falkena and Frank Selten

Point-by-point reply to the Editor

I thank the authors for their thorough revisions. Following the re-assessment by Referee 2 and my own evaluation, the paper can be accepted for publication subject to the following minor changes.

We thank the Editor for the final comments on the manuscript.

1. *Please separate the Section "Summary and Discussion" into two distinct sections: first "Discussion" (interpretive parts) and then "Summary" (broader consequences and conclusions), following the standard structure of scientific papers. This should be feasible without fundamental changes to the exiting material but rather some re-arranging and transitional edits – for example, by using the first and last paragraphs of current Section "Summary and Discussion" as a starting point for the new "Summary" section, while ensuring the text flows well over both of the new sections and fits their respective purposes.*

Author's reply:

Agreed, this section can be split into two parts, following the standard structure of scientific papers.

Changes in manuscript:

The revised manuscript now includes a separate Discussion Section and Summary Section. Textual changes were kept to a minimum.

2. *I appreciate the authors' effort to improve readability of the figure labels; however, the y axis labels and the y axis titles are still very small and difficult to read in most figures. I understand there is a balance to strike between actual figure content and labels, but please improve these*

as well. For reference, Figure 2 is adequately readable, and the font sizes should not be substantially smaller for good readability.

Author's reply:

We have further improved all figures for readability. To be specific, labels and ticks for the axes, and legend labels are displayed at a larger size.

Changes in manuscript:

All figures are revised accordingly.

3. *Figure A1: Please move the equations from the figure caption into the appendix text, and in the caption only mention the abbreviations "RMSE" / "RMSEend".*

Author's reply:

Agreed.

Changes in manuscript:

The equations are moved to the appendix text, abbreviations are mentioned in the caption.